

**FIRST SEMESTER BLUEPRINT**  
**DEPARTMENT OF COMPUTING, MATHEMATICS AND PHYSICS**

When planning your first semester...

- Students should register for a minimum of 12 credits and no more than 16.
- All First-Year students are required to take First Year Seminar their first term. This is a required writing course, and each section focuses on a different topic for students to explore.
- **QuEST** (Qualities Essential for Student Transformation) courses are Messiah University's general education program completed by all students. Specific recommendations for your first semester are included on the blueprint.
- Students who have earned AP, CLEP, or IB credit should refer to the information provided here: [AP, CLEP, IB Credit](#).
- You can view the most up-to-date version of the schedule of classes by accessing [The View](#).
- For further assistance, contact Dr. Niklas Hellgren, Department Chair Computing, Mathematics, Physics, [nhellgren@messiah.edu](mailto:nhellgren@messiah.edu), 717-796-1800 ext. 2082.

The First Semester Blueprint is your guide to course registration in your first semester. Click on your major to view the recommended courses (developed by your faculty) for your first semester at Messiah.

[Actuarial Science \(B.S.\)](#)

[Computer and Information Science \(B.S.\)](#)

[Computer Science with Secondary Teaching Certification \(B.A.\)](#)

[Cybersecurity \(B.S.\)](#)

[Digital Media with Mobile Application and Game Design concentration \(B.A.\)](#)

[Mathematics \(B.A.\)](#)

[Mathematics with Secondary Teaching Certification \(B.A.\)](#)

[Physics \(B.A.\) and \(B.S.\)](#)

[Physics with Secondary Teaching Certification \(B.A.\)](#)

**Actuarial Science (B.S.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
MATH 103*	Supplemental Calculus I <b>AND</b>	1
MATH 111/111L* <sup>1</sup>	Calculus I <b>AND</b> Lab: Calculus I	4
MATH 196	Mathematics Seminar	2
<a href="#">Please review the Guidelines for Calculus Courses</a>		
<i>*Please register for MATH 103/111/111L even if you are confident you will receive AP credit for these courses. AP scores arrive in early July. If you receive AP credit for MATH 111, you may adjust your schedule and enroll in MATH 112/112L. Information about AP credit is available <a href="#">here</a>.</i>		
Students <b>SHOULD</b> register for the following courses:		
<a href="#">Language Course</a> (CHIN, FREN, GERM, SPAN)		3
COMM 105	Fundamentals of Oral Communication	3

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3
PHIL 101 (Problems in Philosophy)	3

<b>Recommended total credits your first semester:</b>	<b>12-16 credits</b>
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\*\*Search [The View](#) by attribute type(s) noted above

Specific major-related questions may be directed to Dr. Niklas Hellgren, Department Chair Computing, Mathematics, Physics, [nhellgren@messiah.edu](mailto:nhellgren@messiah.edu) or 717-796-1800 ext. 2082.

<sup>1</sup> MATH 111/111L is intended to be an in-person course for residential and commuter students. Students are advised **NOT** to register for the online asynchronous section of MATH 111/111L (CRNs 1615/1619). These sections are intended for dual-enroll students who are not residential.

**Computer and Information Science (B.S.)****Computer and Information Science with Secondary Teaching Certification (B.A.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
CIS 180*	Intro. to Computer and Information Science	3
CIS 181**	Computer Programming I	3
*There are seats reserved for your major in these courses. See <a href="#">The View</a> for CRNs (CRNs required to register for CIS 180 and CIS 181). Follow <a href="#">registration instructions</a> (page 6) to add courses to your schedule by CRN.		
**If you receive AP credit for CIS 180, you may adjust your schedule and enroll in a QuEST course (see below) or contact Dr. Niklas Hellgren about enrolling in another CIS course.		
**If you receive AP credit for CIS 181, you may adjust your schedule and enroll in CIS 284. Information about AP credit is available <a href="#">here</a> .		
Students <b>SHOULD</b> register for the following:		
	<a href="#">Language Course</a> (CHIN, FREN, GERM, SPAN)	3

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3
PHIL 101 (Problems in Philosophy)	3

<b>Recommended total credits your first semester:</b>	<b>12-16 credits</b>
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**Cybersecurity (B.S.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
CIS 150	Intro. to Cybersecurity	3
CIS 181*	Computer Programming I	3
* <b>There are seats reserved for your major in this course. See <a href="#">The View</a> for CRNs (CRNs required to register for CIS 181). Follow <a href="#">registration instructions</a> (page 6) to add courses to your schedule by CRN.</b>		
* <b>If you receive AP credit for CIS 180, you may adjust your schedule and enroll in a QuEST course (see below) or contact Dr. Niklas Hellgren about enrolling in another CIS course.</b>		
** <b>If you receive AP credit for CIS 181, you may adjust your schedule and enroll in CIS 284.</b>		
<b>Information about AP credit is available <a href="#">here</a>.</b>		
Students <b>SHOULD</b> register for the following:		
<a href="#">Language Course</a>	(CHIN, FREN, GERM, SPAN)	3

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3
PHIL 101 (Problems in Philosophy)	3

<b>Recommended total credits your first semester:</b>	<b>12-16 credits</b>
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**Digital Media with Mobile Application and Game Design Concentration (B.A.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
CIS 181***	Computer Programming I	3
* <b>There are seats reserved for your major in this course. See <a href="#">The View</a> for CRN (CRN required to register for CIS 181). Follow <a href="#">registration instructions</a> (page 6) to add courses to your schedule by CRN.</b>		
Students may <b>CONSIDER</b> registering for the following course:		
CIS 180**	Intro. to Computer and Information Science	3
* <b>There are seats reserved for your major in this course. See <a href="#">The View</a> for CRN (CRN required to register for CIS 180). Follow <a href="#">registration instructions</a> (page 6) to add courses to your schedule by CRN.</b>		
+ <b>If you receive AP credit for CIS 180, you may adjust your schedule and enroll in a QuEST course (see below) or talk to your advisor about enrolling in another CIS course.</b>		
** <b>If you receive AP credit for CIS 181, you may adjust your schedule and enroll in CIS 284.</b>		
<b>Information about AP credit is available <a href="#">here</a>.</b>		

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3
<a href="#">Language Course</a> (CHIN, FREN, GERM, SPAN)	3
PHIL 101 (Problems in Philosophy)	3
Social Science** (QuEST/GenEd: Social Science)	3

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**Mathematics (B.A.)****Mathematics with Secondary Teaching Certification (B.A.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
MATH 103**	Supplemental Calculus I <b>AND</b>	1
MATH 111/111L** <sup>2</sup>	Calculus I <b>AND</b> Lab: Calculus I	4
MATH 196	Mathematics Seminar	2
+ <a href="#">Please review the Guidelines for Calculus Courses</a>		
<b>*Please register for MATH 103/111/111L even if you are confident you will receive AP credit for these courses. AP scores arrive in early July. If you receive AP credit for MATH 111, you may adjust your schedule and enroll in MATH 112/112L instead. Information about AP credit is available <a href="#">here</a>.</b>		
Students <b>SHOULD</b> register for the following courses:		<u>Credits</u>
COMM 105	Fundamentals of Oral Communication	3
<a href="#">Language Course</a>	(CHIN, FREN, GERM, SPAN)	3

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3

<b>Recommended total credits your first semester:</b>	<b>12-16 credits</b>
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<sup>2</sup> MATH 111/111L is intended to be an in-person course for residential and commuter students. Students are advised **NOT** to register for the online asynchronous section of MATH 111/111L (CRNs 1615/1619). These sections are intended for dual-enroll students who are not residential.

**Physics (B.A.), (B.S.)****Physics with Secondary Teaching Certification (B.A.)**

Students <b>MUST</b> register for the following courses:		<u>Credits</u>
IDFY 101	First Year Seminar	3
MATH 103**	Supplemental Calculus I <b>AND</b>	1
MATH 111/111L** <sup>3</sup>	Calculus I <b>AND</b> Lab: Calculus I	4
+ <a href="#">Please review the Guidelines for Calculus Courses</a>		
<b>*Please register for MATH 103/111/111L even if you are confident you will receive AP credit for these courses. AP scores arrive in early July. If you receive AP credit for MATH 111, you may adjust your schedule and enroll in MATH 112/112L instead. Information about AP credit is available <a href="#">here</a>.</b>		
Students <b>SHOULD</b> register for:		
CHEM 105 <sup>+</sup>	General Chemistry I <b>AND</b>	4
CHEM 105L <sup>+</sup>	Lab: General Chemistry I	0
+ <b>Please review the <a href="#">Guidelines for Chemistry Courses</a></b>		
<b>AND one</b> of the following courses:		
COMM 105	Fundamentals of Oral Communication <b>OR</b>	3
<a href="#">Language Course</a>	(CHIN, FREN, GERM, SPAN)	3

<b>Select</b> from the following <b>QuEST</b> options to complete your schedule:	<u>Credits</u>
European History or U.S. History** (QuEST/GenEd: Euro History or U.S. History)	3

<b>Recommended total credits your first semester:</b>	<b>12-16 credits</b>
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